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[Parallel and Distributed Processing, 1991. Proceedings of the Third IEEE Symposium on](#)  
2-5 Dec. 1991 Page(s):52 - 59  
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## Patents

Patents 1 - 10 on **replication relational databases**. (0.08 seconds)

### Asynchronous replication of data changes by distributed update requests

US Pat. 5261094 - Filed Apr 8, 1991 - International Business Machines Corporation

In particular, a method for synchronizing changes to **relational databases** is described. 2. Background Information both machines are updated to indicate the ...

### Methods and systems for object-based relational distributed databases

US Pat. 5560005 - Filed Feb 25, 1994 - ActaMed Corp.

The duplicative storage of information 5 in autonomous **databases** is inefficient ... The **replication** service keeps the multiple copies updated by replicating ...

### Computer manufacturing system architecture with enhanced software distribution functions

US Pat. 6202070 - Filed Dec 31, 1997 - Compaq Computer Corporation

The choice of a **relational** database model managed by Microsoft's SQL ... The master PRISM database 110 **replication** to master site **databases** and their ...

### Method and apparatus for implementing a hierarchical database management system (HDBMS) using a ...

US Pat. 5974407 - Filed Sep 29, 1997

The Prior Art for using hierarchical and **relational databases** together fall in three ... and **replication** technologies are used for the data synchronization. ...

### Independent distributed database system

US Pat. 5924094 - Filed Nov 1, 1996 - Current Network Technologies Corporation

Currently there are two main approaches to sharing **relational databases**: traditional distributed **databases**, and traditional **replication** systems. ...

### Method and system for object-based relational distributed databases

US Pat. 5724575 - Filed Jul 1, 1996 - ActaMed Corp.

The duplicative storage of information 10 in autonomous **databases** is ... and **replication** (in which the entire ID table is replicated on all nodes). ...

### Object oriented data store integration environment for integration of object oriented databases ...

US Pat. 5542078 - Filed Sep 29, 1994 - Ontos, Inc.

Gateways do not provide unified access to disparate **relational** data stores through ... and problems with data **replication**, both of which require substantial ...

### Method and apparatus for peer-to-peer data replication including handling exceptional ...

US Pat. 5737601 - Filed Jan 16, 1997 - Oracle Corporation

The system PEER DATA **REPLICATION** INCLUDING includes the associated ... a method abandoned. for refreshing multicolumn tables in a **relational** database. ...

### Data replication in data warehousing scenarios

US Pat. 6438538 - Filed Oct 7, 1999 - International Business Machines Corporation

Data **replication** enables use of these applications by mapping, reformatting, and delivering data from legacy environments to **relational databases** elsewhere. ...

E-mail filter and method thereof

US Pat. 6421709 - Filed Jul 7, 1999 - Accepted Marketing, Inc.

The Spam and Submittal Filters are both stored in **relational databases**. ...

the Collaborative Filter can utilize those products' **replication** technology to ...

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## Patents

Patents 11 - 20 on **replication relational databases**. (0.03 seconds)

### Simplified interface for relational database access using open database connectivity

US Pat. 6065002 - Filed Oct 31, 1996 - Systems and Computer Technology Corporation

**Relational databases** have brought significant technological benefits to business and industry. ... This method requires **replication** of the data. ...

### Method and apparatus for peer-to-peer data replication

US Pat. 5806075 - Filed Jan 14, 1997 - Oracle Corporation

METHOD AND APPARATUS FOR PEER-TO- PEER DATA **REPLICATION** This is a ... , discloses a method for refreshing multicolumn tables in a **relational** database. ...

### Remote log based replication solution

US Pat. 6622152 - Filed May 9, 2000 - International Business Machines Corporation

In one exemplary 5 environment, the **replication** technique of the present ...

log 306, and disk drives, that store one or more **relational databases**. ...

### Channel configuration program server architecture

US Pat. 6092189 - Filed Apr 30, 1998 - Compaq Computer Corporation

Of course, **replication** to master site **databases** 112 can be accomplished ...

**Relational** database management systems, such as PRISM and CCP are able to ...

### Techniques for peer-to-peer replication of objects in a relational database

US Pat. 6889229 - Filed Sep 28, 2001 - Oracle International Corporation

BEGIN **REPLICATION** PROCESS DETERMINE THAT A DATABASE OBJECT INCLUDES A USER-DEFINED OBJECT INVOKE A DATABASE ROUTINE TO COPY TO THE NEW NODE DATA DEFINING ...

### Apparatus for applying analysis rules to data sets in a relational database to generate a ...

US Pat. 5537590 - Filed Aug 5, 1993

A few existing systems would allow the **replication** of the operations of this ...

summary reports from huge amounts of information stored in **databases**. ...

### Voice over data telecommunications network architecture

US Pat. 6614781 - Filed Nov 20, 1998 - Level 3 Communications, Inc.

This permits pulling back transactions, also known as "rolling back" a **replication/** update, so updates will occur to all of or none of the **databases** ...

### Preforming concurrent transactions in a replicated database environment

US Pat. 5781910 - Filed Sep 13, 1996 - Stratus Computer, Inc.

318. such as those manufactured by 15 to guarantee consistent **replication** of data.

non-replicated **relational** database management system invention is to ...

### Enterprise data movement system and method which maintains and compares edition levels for ...

US Pat. 6029178 - Filed Mar 31, 1998 - BMC Software

During data movement or **replication** operations, data will need to be ... Data is

often distributed among the components and stored in **relational databases**. ...

Independent distributed database system

US Pat. 6446092 - Filed Mar 15, 1999 - PeerDirect Company

The distributed **relational** database system as claimed in claim 41, wherein said means for propagating comprises **replication** means for replicating selected ...



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## Patents

Patents 21 - 30 on replication relational databases. (0.57 seconds)

### Relational database synchronization method and a recording medium storing a program therefore

US Pat. 6374262 - Filed Sep 1, 1998 - Fujitsu Limited

In order to carry out the **replication**, data write into the **databases** held by the ... a 50 server holding master data of a **relational** database and portable ...

### Method and apparatus for providing database system replication in a mixed propagation environment

US Pat. 5937414 - Filed Feb 28, 1997 - Oracle Corporation

2 is a block diagram of an exemplary mixed propagation **replication** system; FIG. ... The body of data may be, for example, a table in a **relational** database. ...

### Automated system and method for customized and personalized presentation of products and ...

US Pat. 6349290 - Filed Jun 30, 1999 - Citibank, N.A.

Oracle has a mature 55 **relational** DBMS engine, Oracle 8.0. ... which allows 60 access and **replication** of remote **databases**, including Oracle **databases** of ...

### System and method for controlling access to data entities in a computer network

US Pat. 5941947 - Filed Aug 18, 1995 - Microsoft Corporation

Each service group runs a particu- 20 transaction **replication** services ... For example, each appli- defining, updating and querying **relational databases**. ...

### Apparatus and method for coordinating logical data replication with highly available data ...

US Pat. 7177886 - Filed Feb 7, 2003 - International Business Machines Corporation

In the data distribution **replication** system, an object at the critical database node ... A transaction performed in the **relational** database is identified. ...

### Automated query optimization method using both global and parallel local optimizations for ...

US Pat. 4769772 - Filed Feb 28, 1985 - Honeywell Bull, Inc.

6, June 1970, which is incorporated herein by reference, 60 because the **relational** data model is convenient for describing the distribution and **replication** ...

### Method and system for data replication

US Pat. 6615223 - Filed Feb 29, 2000 - Oracle International Corporation

If this 55 approach is used in a **relational** database system, each participating site in the **replication** environment has the same schema organization for the ...

### Federated information management (FIM) system and method for providing data site filtering and ...

US Pat. 5634053 - Filed Aug 29, 1995 - Hughes Aircraft Company

... For each of the enumerated local sites, the local execution **replication** at any time. ... common features of **relational databases** such as execution ...

System and method for handling backout processing during capture of changed data in an ...

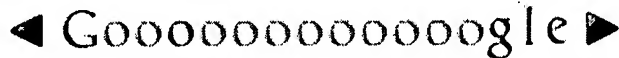
US Pat. 6092086 - Filed Mar 31, 1998 - BMC Software

During data movement or **replication** operations, data will need to be ... Data is often distributed among the components and stored in **relational databases**. ...

Complied objective referential constraints in a **relational** database having dual chain ...

US Pat. 5133068 - Filed Aug 28, 1991 - International Business Machines Corporation

Alternatively, the attributes of the foreign key fields could have been replicated in the relationship descriptor, but such **replication** is considered to be ...



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## Patents

Patents **31 - 40** on **replication relational databases**. (0.06 seconds)

### Data replication for front office automation

US Pat. 6532479 - Filed May 28, 1999 - Oracle Corp.

In a distributed database system using data **replication**, ... In this example, **relational** database 1204 contains a customers master table 1212 and an orders ...

### Apparatus and method for providing users with transparent integrated access to heterogeneous ...

US Pat. 5596744 - Filed May 20, 1993 - Hughes Aircraft Company

... access data go from multiple **Relational** database Management Systems (RDBMS), ... Fragment **Replication**. The Optimizer decides which fragments need to be ...

### Method of maintaining a network of partially replicated database system

US Pat. 5873096 - Filed Oct 8, 1997 - Siebel Systems, Inc.

Background **Relational databases** are a commonly-employed data structure for ... in such a way that the degree of **replication** may be easily changed without ...

### Automatic pruning for log-based replication

US Pat. 6473776 - Filed Aug 2, 1999 - International Business Machines Corporation

Description of Related Art 20 Database **replication** refers to the process of ...In general, **relational databases** store updates in a journal (hereinafter ...

### Replica routing

US Pat. 6052718 - Filed Jan 7, 1997 - Sightpath, Inc

... 42, 43, 44 can be dynamically maintained by a network-based **replication** method, ... including **relational databases**, multimedia data, video files, ...

### In-line triggers

US Pat. 5926819 - Filed May 30, 1997 - Oracle Corporation

Some **databases** implement **replication** by defining triggers when DML statements are executed, for example, when a user inserts, modifies, ...

### Distributed read/write replication with primary copy first write and primary copy transfer ...

US Pat. 5737738 - Filed Mar 26, 1996 - International Business Machines Corporation

"A Competitive Dynamic Data **Replication** Algorithm", TF.EF. Conf. No. 9, Apr.19, 1993 pp. 310-317. E. Babb, "Implementing a **Relational** Database by Means of ...

### Method of synchronizing independently distributed software and database schema

US Pat. 6324693 - Filed Aug 17, 1999 - Siebel Systems, Inc.

Background **Relational databases** are a commonly-employed data structure for ... in such a way that the degree of **replication** may be easily changed without ...

### Method and apparatus for fault tolerant call processing

US Pat. 5974114 - Filed Sep 25, 1997 - AT&amp;T Corp

The static data **replication** module receives static call data, and stores the

static call data in a static call data profile in the **relational** database. ...

Techniques for adding a master in a distributed database without suspending database operations ...

US Pat. 7039669 - Filed Sep 28, 2001 - Oracle Corporation

Often a **replication** group is created for SUSPENDING DATABASE OPERATIONS AT a subset of the database objects in one or more **databases** EXTANT MASTER SITES ...



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## Patents

Patents **51 - 60** on **replication relational databases**. (0.06 seconds)

### Getfield function for a **relational** workgroup platform using keyword and workflow **databases** ...

US Pat. 5855014 - Filed Oct 31, 1996 - Application Partners, Inc.

With **replication**, changes to each database replica are distributed to all ...  
**databases** of a workgroup platform, a **Relational Workgroup Platform (RWP)** is ...

### Managing information in an integrated development architecture framework

US Pat. 6662357 - Filed Aug 31, 1999 - Accenture LLP

The current trend seems to be for object-**relational databases**, with vendors ...  
stored procedures, **replication**, application logic, application generation, ...

### Mid-tier-based conflict resolution method and system usable for message synchronization and ...

US Pat. 6983293 - Filed Jul 24, 2002 - International Business Machines Corporation

... communication environments for message synchronization and **replication**. ...  
devices, such as disk drives, that store one or more **relational databases**. ...

### Collision avoidance in bidirectional database **replication**

US Pat. 6662196 - Filed Mar 16, 2001 - ITI, Inc.

The scope of the present invention is not limited to **relational** database ...  
process locally initiated transactions and that post transactions to **databases**. ...

### Enterprise data movement system and method including opportunistic performance of utilities and ...

US Pat. 6035307 - Filed Mar 30, 1998 - BMC Software

Finally, such tools typically focus on only part of the **replication** ... Data is  
often distributed among the components and stored in **relational databases**. ...

### Data **replication** security

US Pat. 6792540 - Filed May 28, 1999 - Oracle International Corporation

2 depicts an exemplary snapshot **replication** environment for a company's sales  
... In this example, **relational** database 204 contains a customers master table ...

### Prioritized merging for full-text index on **relational** store

US Pat. 7007015 - Filed May 1, 2002 - Microsoft Corporation

**Relational Databases** Database management systems (dbmss) such as Oracle 35 ...  
**Replication**, ie, keeping distributed **databases** synchronized by copying the ...

### Method of maintaining a network of partially replicated database system

US Pat. 6189011 - Filed Dec 23, 1998 - Siebel Systems, Inc.

Background **Relational databases** are a commonly employed data structure for ...  
in such a way that the degree of **replication** may be easily changed without ...

### Asynchronous coordinated commit **replication** and dual write with **replication** transmission and ...

US Pat. 7177866 - Filed Sep 17, 2003 - Gravic, Inc.

40 The scope of the present invention is not limited to **relational** database ...  
locally initiated transactions and that post transactions to **databases**. ...

Agent for replicating data based on a client defined **replication** period

US Pat. 5884324 - Filed Jul 23, 1996 - International Business Machines Corporation

In current systems, the data **replication** function is implemented as follows: the  
... logs, and **relational** joins) required to allow the client to update the ...



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## Patents

Patents 1 - 10 on **replication time databases**. (0.29 seconds)

### Asynchronous replication of data changes by distributed update requests

US Pat. 5261094 - Filed Apr 8, 1991 - International Business Machines Corporation  
logical indicator that record has been deleted TLU=time last updated. ... a method for replicating changes to one of the **databases** comprising the steps of: ...

### Independent distributed database system

US Pat. 5924094 - Filed Nov 1, 1996 - Current Network Technologies Corporation  
According to this aspect of the invention, at **replication time** and before replacing a given fragment the **replication** engine checks its validity. ...

### Synchronization and replication of object databases

US Pat. 5684984 - Filed Sep 29, 1994 - Apple Computer, Inc.  
After the object is C++, type information is absent at run **time**. ... Because run-time type Objects may have sub-objects that are not Documents run-time type ...

### Concurrently applying redo records to backup database in a log sequence using single queue ...

US Pat. 5170480 - Filed Sep 25, 1989 - International Business Machines Corporation  
In the prior art, database **replication** is exemplified in the use of ... 40 between the **databases**, and utilize database serialization in the form of locking. ...

### Performing concurrent transactions in a replicated database environment

US Pat. 5781910 - Filed Sep 13, 1996 - Stratus Computer, Inc.  
This involves two forced disk backup approaches to database **replication**, ... vary across the system by replacing a failed primary with one of the **databases**. ...

### Time based expiration of data objects in a store and forward replication enterprise ...

US Pat. 5794253 - Filed Jul 12, 1996 - Microsoft Corporation  
In **replication** enterprise. 1S implement the concept of **time** based expiration. ment where data is replicated among various servers ...

### Method and apparatus for peer-to-peer data replication

US Pat. 5806075 - Filed Jan 14, 1997 - Oracle Corporation  
METHOD AND APPARATUS FOR PEER-TO- PEER DATA **REPLICATION** This is a ... All transactions (eg, logical units of work) are **time** stamped to assure access to the ...

### Method and apparatus for peer-to-peer data replication including handling exceptional ...

US Pat. 5737601 - Filed Jan 16, 1997 - Oracle Corporation  
The system PEER DATA **REPLICATION** INCLUDING includes the associated ... , and (3) "**time**  
This invention relates to the field of data **replication**. s(amp , ...

### System for merging virtual partitions of a distributed database

US Pat. 4853843 - Filed Dec 18, 1987 - Tektronix, Inc.  
Optionally the defining user may specify a default **replication** factor for the

... in "Multiple Version Management of Hypothetical **Databases**" published 1985 ...

**Bidirectional database replication scheme for controlling ping-ponging**

US Pat. 6122630 - Filed Jun 8, 1999 - ITI, Inc.

Bidirectional **replication** simplifies the manual procedures necessary to manage

... ("Latency" is defined as the **time** that the commit takes place on one ...

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## Patents

Patents **11 - 20** on **replication time databases**. (0.04 seconds)

### Independent distributed database system

US Pat. 6446092 - Filed Mar 15, 1999 - PeerDirect Company

The Tax table stores the core information that does not change over **time** ...  
data was the most recent (if a **replication time**-stamp is being stored) or at ...

### System and method for database update replication

US Pat. 5995980 - Filed Jul 23, 1996

**Databases** are often replicated to reduce contention or access to a primary ...  
while consuming significant amounts of processing resources and **time**. ...

### Configurable conflict resolution in a computer implemented distributed database ...

US Pat. 5806074 - Filed Mar 19, 1996 - Oracle Corporation

The asynchronous **replication** method provides a means for balancing network traffic  
over **time**. The asynchronous method also provides an effective means for ...

### Method of buffering data objects in a database

US Pat. 5680573 - Filed Jul 12, 1994 - Sybase, Inc.

Each **replication** of the buffer cache has the same name and same memory pool ...  
The hash table points the access methods to the proper **replication** of the ...

### Methods and systems for object-based relational distributed databases

US Pat. 5560005 - Filed Feb 25, 1994 - ActaMed Corp.

The duplicative storage of information in autonomous **databases** is inefficient  
... The **replication** service keeps the multiple copies updated by replicating ...

### Remote duplicate database facility with database replication support for online DDL operations ...

US Pat. 5745753 - Filed Jan 24, 1995 - Tandem Computers, Inc.

Finally, If so, a current timestamp indicative of the current **time** is the ...  
Every **time** the extractor procedure encounters a is updated to indicate that ...

### Distributed database system and method of detecting contention in data update involved in ...

US Pat. 5946689 - Filed Nov 26, 1997 - Hitachi, Ltd.

... and **databases** of the remaining database systems 4Q being produced by ...  
number history associated with said data each **time** said 55 data is updated; ...

### Method and apparatus for workgroup information replication

US Pat. 5757669 - Filed May 31, 1995 - Netscape Communications Corporation

The **replication** agent uses a process This state information is maintained at the  
... The date and **time** stamp is used by the 35 "arrived" when it is first ...

### Record tracking in database replication

US Pat. 5819272 - Filed Jul 12, 1996 - Microsoft Corporation

**Replication** conflicts occur when a message is changed on a plurality of servers

at roughly the same **time**, between replications (lists of predecessor change ...

System, method and article of manufacture for communications utilizing calling plans in a ...

US Pat. 5867495 - Filed Nov 18, 1996 - MCI Communications Corporations

... of distributed **databases** and 45 distributed data access with the following  
functionality: **Replication** and Synchronization; Partitioning of Data Files; ...



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## Patents

Patents **21 - 30** on **replication time databases**. (0.07 seconds)

### Method and system for distributed caching, prefetching and replication

US Pat. 6167438 - Filed May 22, 1997 - Trustees of Boston University

... and/or implement several fea- more than a predetermined number of **time** epochs

... The cache servers 16 can also be used to host replicas of **databases**, ...

### Method and system for data replication

US Pat. 6615223 - Filed Feb 29, 2000 - Oracle International Corporation

Synchronous **replication** typically results more overhead 40 than asynchronous

**replication**. More **time** is required to perform synchronous **replication** since a ...

### Computer system with a plurality of database management systems

US Pat. 6754679 - Filed Mar 30, 2001 - Hitachi, Ltd.

The requested refresh (**replication time**) interval can be set up in data refresh

manager 284, for example. To choose the technique to use, a comparison can ...

### Computer manufacturing system architecture with enhanced software distribution functions

US Pat. 6202070 - Filed Dec 31, 1997 - Compaq Computer Corporation

This table holds the **time** it was last run so that future invocations may know if its

... mechanism increases the amount of data transferred via **replication**, ...

### Method and apparatus for replicated transaction consistency

US Pat. 6012059 - Filed Aug 21, 1997 - Dataxel Corporation

These alternatives permit the replica site to establish the current point in **time**

among the **replication** packages received from the primary sites. ...

### Allowing inconsistency in a distributed client-server application

US Pat. 5751958 - Filed Jun 30, 1995 - PeopleSoft, Inc.

Generally, **replication** can be used effectively more digital computers. The user

independence is enabled with **databases** that can be partitioned into subsets ...

### Federated information management (FIM) system and method for providing data site filtering and ...

US Pat. 5634053 - Filed Aug 29, 1995 - Hughes Aircraft Company

... For each of the enumerated local sites, the local execution **replication** at

any **time**. ... common features of relational **databases** such as execution ...

### Web serving system that coordinates multiple servers to optimize file transfers

US Pat. 5991809 - Filed Jul 25, 1997 - Clearway Technologies, LLC

Then, the serving **time** is calculated by considering the transmission **time** of the

... Then, the first **replication** server is obtained as shown in step 158, ...

### Intelligent page store for concurrent and consistent access to a database by a transaction ...

US Pat. 5317731 - Filed Feb 25, 1991 - International Business Machines Corporation

... shown by **replication** of the database pages and hence at minimal the exact ...

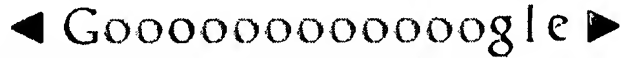
Throughout this **time** Q1 and Q2 must have Transaction Database Log 6, ...

Method and apparatus for database fault tolerance with instant transaction **replication** using off ...

US Pat. 6421688 - Filed Mar 2, 2000 - Parallel Computers Technology, Inc.

Hardware **replication** technologies can resolve hardware related problems, ...

and redo commands will pass back and forth between the RDF and local **databases**. ...



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## Patents

Patents 1 - 9 on **replication relational joining keys**. (0.09 seconds)

### Query optimization by transparently altering properties of relational tables using materialized ...

US Pat. 6339769 - Filed Sep 14, 1998 - International Business Machines Corporation

... the processors 102 in the MPP computer system 102 via the partitioning **keys** dened above. ... making **replication** across all processors 102 unattractive. ...

### Set containment join operation in an object/relational database management system

US Pat. 6728694 - Filed Apr 17, 2000 - NCR Corporation

Relaxing this assumption and considering faster algorithms for **joining** partitions  
... 4.2.2 **Joining** Phase During the **joining** phase, each partition of R is ...

### Data replication in data warehousing scenarios

US Pat. 6438538 - Filed Oct 7, 1999 - International Business Machines Corporation

Whenever a **replication** gate expressions and grouping clauses. ... Apply components can also read data directly 20 increasing **relational** database stored in ...

### Sorted-paged retrieval of hierarchical data from relational databases

US Pat. 6898593 - Filed Feb 5, 2002 - i2 Technologies US, Inc.

A **relational** database is a database organized as a collection of tables. ...  
partial de-normalization or partial **replication** of information to improve the ...

### Parallel query optimization strategies for replicated and partitioned tables

US Pat. 6625593 - Filed Sep 13, 1999 - International Business Machines Corporation

... that summarize important **relational** characteristics (eg, tables accessed, ...  
distribution 35 function denoting **replication**, and no distribution key. ...

### Method and apparatus for object-oriented access to a relational database management system ...

US Pat. 6968344 - Filed Feb 5, 2002 - Tata Consultancy Services Limited

... of data records stored in a **relational** database in an object oriented way ...  
schema is one to one class to table with **replication** in the sub-classes. ...

### Secure network system and method for transfer of medical information

US Pat. 7028182 - Filed Jan 26, 2000 - Nexsys Electronics, Inc.

This information may be included in the **relational** database 28, ... such as  
synchronous asymmetric **replication** (SAR) and CORBA techniques to update the ...

### System and method for metadirectory differential updates among constituent heterogeneous data ...

US Pat. 7107297 - Filed Jan 10, 2002 - International Business Machines Corporation

... nor is it just a directory synchronization and **replication** tool. ... data from  
each data source in a **relational** database, preferably in a DB2 database. ...

### Subscription and notification with database technology

US Pat. 6826560 - Filed Jun 30, 2000 - International Business Machines Corporation  
The processing of this statement per se by a **relational** database system is ...  
An interesting application of this approach is the periodic **replication** of ...

replication relational joining keys

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replication correlate join keys

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## Patents

Patents 1 - 1 on replication correlate join keys. (0.09 seconds)

### Set containment join operation in an object/relational database management system

US Pat. 6728694 - Filed Apr 17, 2000 - NCR Corporation

SET CONTAINMENT JOIN OPERATION IN AN OBJECT/RELATIONAL DATABASE ... in order to minimize the impact of excessive replication and improve performance. ...

replication correlate join keys

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## Patents

Patents 1 - 10 on replication database name joining key. (0.04 seconds)

### Database partial replica generation system

US Pat. 5758337 - Filed Aug 8, 1996 - Microsoft Corporation

401 and 501, **database** schema 600 lists only the table **name** and the column, or field, ... 14-21 are used below to describe in detail the partial **replication** ...

### Method and apparatus for managing clustered computer systems

US Pat. 6393485 - Filed Oct 27, 1998 - International Business Machines Corporation

The timer value is defined in the cluster configuration **database** and may be ... its timestamp in the first phase to force a **database replication**, (3) The ...

### Well-known transactions in data replication

US Pat. 7143123 - Filed Jan 9, 2004 - Microsoft Corporation

In a peer-to-peer scenario, **joining** is on one LSN 10 watermark for every ... originating server **name** (OSN) and originating publisher **database name** ( ...

### Managing the size and accessibility of a name service

US Pat. 6594702 - Filed Feb 25, 1999 - Oracle International Corporation

When a **name** service daemon is **joining** an existing **name** service, **name** service ... For example, it may be desirable to publish information about a **database** ...

### Query optimization by transparently altering properties of relational tables using materialized ...

US Pat. 6339769 - Filed Sep 14, 1998 - International Business Machines Corporation

... CUST) PARTITIONING **KEY** (ACCTID); 40 In this application, all tables in this **database** are ... making **replication** across all processors 102 unattractive. ...

### System and method for metadirectory differential updates among constituent heterogeneous data ...

US Pat. 7107297 - Filed Jan 10, 2002 - International Business Machines Corporation

A human resources **database** may contain a first entry (22) for an employee "Clark Kent", including his employee number, surname, first **name**, title, ...

### Subscription and notification with database technology

US Pat. 6826560 - Filed Jun 30, 2000 - International Business Machines Corporation

An interesting application of this approach is the periodic **replication** of modified ... and the causing tuple, as eg its primary **key** into a separate queue. ...

### Uniform name space referrals with location independence

US Pat. 6947940 - Filed Jul 30, 2002 - International Business Machines Corporation

2A-2B, thereby **joining** the separate **name** spaces. ... automounter implementations is that transparent migration and **replication** cannot be supported without ...

### Method for content-aware redirection and content renaming

US Pat. 6954456 - Filed Dec 14, 2001 - AT & T Corp.

The **key** criteria we are concerned with in this writeup however is the content

that is being ... This could lead to a great deal of **database replication**, ...

Secure network system and method for transfer of medical information

US Pat. 7028182 - Filed Jan 26, 2000 - Nexsys Electronics, Inc.

This information may be included in the relational **database 28**, ... **replication** (SAR) and CORBA techniques to update the **database** with new information. ...

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## Patents

Patents 1 - 10 on **replication database name joining key**. (0.04 seconds)

### Database partial replica generation system

US Pat. 5758337 - Filed Aug 8, 1996 - Microsoft Corporation

401 and 501, **database** schema 600 lists only the table **name** and the column, or field, ... 14-21 are used below to describe in detail the partial **replication** ...

### Method and apparatus for managing clustered computer systems

US Pat. 6393485 - Filed Oct 27, 1998 - International Business Machines Corporation

The timer value is defined in the cluster configuration **database** and may be ... its timestamp in the first phase to force a **database replication**, (3) The ...

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replication database name joining key

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## Patents

Patents 11 - 11 on replication database name joining key. (0.07 seconds)

### Multicasting in ATM-networks

US Pat. 7110403 - Filed Sep 6, 1999 - Teliasonera AB

... as the **key** and the ATM address of the corresponding core, if it has one. ...  
of the core: and **replication** of the core for fault tolerance reasons. ...



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## Patents

Patents 1 - 10 on replication multiple databases. (0.05 seconds)

### Methods and systems for object-based relational distributed databases

US Pat. 5560005 - Filed Feb 25, 1994 - ActaMed Corp.

The duplicative storage of information in autonomous **databases** is inefficient... The **replication** service keeps the **multiple** copies updated by replicating ...

### System and method for synchronizing data in multiple databases

US Pat. 6516327 - Filed Sep 24, 1999 - International Business Machines Corporation

For example, replicas may differ prior to **replication** between them. Accordingly, system ensures that secondary **databases**, main database and ...

### Apparatus and method for providing users with transparent integrated access to heterogeneous ...

US Pat. 5596744 - Filed May 20, 1993 - Hughes Aircraft Company

... provides the users with a uniform interface to access **multiple databases**.... Fragment **Replication**. The Optimizer decides which fragments need to be ...

### System and method for database update replication

US Pat. 5995980 - Filed Jul 23, 1996

**Databases** are often replicated to reduce contention or access to a primary ...The **multiple** queued transactions implicit in update **replication** consume ...

### Bidirectional database replication scheme for controlling ping-ponging

US Pat. 6122630 - Filed Jun 8, 1999 - ITI, Inc.

In homogeneous database **replication**, the two **databases** in the pair are identical.... can have **multiple** target **databases** in a combination of formats. ...

### Method and apparatus for workgroup information replication

US Pat. 5757669 - Filed May 31, 1995 - Netscape Communications Corporation

The **replication** agent corresponds with other sites **databases** where **multiple** copies of the same database are The **replication** agent for each site determines ...

### Synchronization and replication of object databases

US Pat. 5684984 - Filed Sep 29, 1994 - Apple Computer, Inc.

The method of claim 2, wherein, at each of the plurality of sites and at the central location, **multiple** program entities, including information items, ...

### Configurable conflict resolution in a computer implemented distributed database ...

US Pat. 5806074 - Filed Mar 19, 1996 - Oracle Corporation

A conventional distributed database technology is **replication**. Using this methodology, **multiple** replicas or instantiations of data structures or programs ...

### System and method for replication of distributed databases that span multiple primary nodes

US Pat. 6785696 - Filed Jun 1, 2001 - Hewlett-Packard Development Company, L.P.

... **replication** ... **multiple** ...

Before **replication**, the two **databases** reflect only orders table 202B ...

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## Patents

Patents **11 - 20** on **replication multiple databases**. (0.06 seconds)

### Complementary concurrent cooperative multi-processing multi-tasking processing system using ...

US Pat. 5566349 - Filed May 16, 1994

**Multiple databases**—The ... **Replication** transparency—The ... To the end user and the application programmer, the **replication** is transparent; ...

### Method and system for object-based relational distributed databases

US Pat. 5724575 - Filed Jul 1, 1996 - ActaMed Corp.

The duplicative storage of information in autonomous **databases** is inefficient ... This system envisions maintaining **multiple** copies of a set of data on ...

### Method and apparatus for peer-to-peer data replication

US Pat. 5806075 - Filed Jan 14, 1997 - Oracle Corporation

... a networked environment containing copies of data resident at **multiple** sites.  
... Before **replication**, the two **databases** reflect only the order of transactions ...

### Method and apparatus for defining and configuring modules of data objects and programs in a ...

US Pat. 5724556 - Filed Apr 14, 1995 - Oracle Corporation

Other **databases** of the distributed system, i.e. The present invention relates to ... Although **replication** increases the herein, typically include computers, ...

### System and method for incremental change synchronization between multiple copies of data

US Pat. 6202085 - Filed Dec 6, 1996 - Microsoft Corporation

Unfortunately, this simple model does not work well in a **replication** ... Finally, the present invention allows synchronization with third-party **databases** ...

### Performing concurrent transactions in a replicated database environment

US Pat. 5781910 - Filed Sep 13, 1996 - Stratus Computer, Inc.

to a replicated inherent costs associated with the **replication** of **databases**. ...  
in order to manage **multiple databases** and handle the execution amounts of data ...

### Federated information management (FIM) system and method for providing data site filtering and ...

US Pat. 5634053 - Filed Aug 29, 1995 - Hughes Aircraft Company

... to process the global query for access to data in **multiple databases**. ...  
Fragment **Replication**. The Optimizer decides which fragments need to be ...

### Method and apparatus for database fault tolerance with instant transaction replication using off ...

US Pat. 6421688 - Filed Mar 2, 2000 - Parallel Computers Technology, Inc.

Among all different data service technologies, such as flat files, indexed files, **multiple** linked files or **databases**, database is most preferred. ...

Concurrently applying redo records to backup database in a log sequence using single queue ...

US Pat. 5170480 - Filed Sep 25, 1989 - International Business Machines Corporation  
In the prior art, database **replication** is exemplified in the use of ... 40 between the **databases**, and utilize database serialization in the form of locking. ...

Multi-tiered indexing method for partitioned data

US Pat. 5551027 - Filed Sep 11, 1995 - International Business Machines Corporation  
If no single index which references data in **multiple** partitions is ... comes with a severe performance penalty which is disabling in very large **databases**. ...



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## Patents

Patents 21 - 30 on **replication multiple databases**. (0.04 seconds)

### System for activating new service in client server network by reconfiguring the multilayer ...

US Pat. 5548726 - Filed Dec 17, 1993 - Taligeni, Inc.

... nodes or limit **replication** by partitioning the database in some manner. ...  
to insure data consistency if **multiple** sources can update the **databases**. ...

### System for merging virtual partitions of a distributed database

US Pat. 4853843 - Filed Dec 18, 1987 - Tektronix, Inc.

Optionally the defining user may specify a default **replication** factor for the  
... in "**Multiple** Version Management of Hypothetical **Databases**" published 1985 ...

### Software installation and recovery system

US Pat. 6490722 - Filed Oct 20, 1999 - TiVo Inc.

Basic attributes are replicated between **databases**, whereas derived ... meaning that  
the same object may be presented for **replication multiple** times. ...

### Independent distributed database system

US Pat. 5924094 - Filed Nov 1, 1996 - Current Network Technologies Corporation

Currently there are two main approaches to sharing relational **databases**: traditional  
distributed **databases**, and traditional **replication** systems. ...

### Method and system for data replication

US Pat. 6615223 - Filed Feb 29, 2000 - Oracle International Corporation

EIN-DOR, Phillip et al., "Natural Language Access to **Multiple Databases**: A Model  
and a Prototype", Journal of Management Information Systems, Summer 1995, ...

### Method and apparatus for workgroup information replication

US Pat. 6182117 - Filed Jun 12, 1997 - Netscape Communications Corporation

A **replication** agent copies and synchronizes **databases**, com- w puter data ...  
used) and its database (or **databases** where **multiple** copies of the same database ...

### Efficient synchronous and asynchronous database replication

US Pat. 7158998 - Filed Jul 31, 2002 - Cingular Wireless II, LLC

In one embodiment, the **replication** driver: 1. Monitors the availability of **multiple**  
**databases**. 2. Manages connections to **multiple** local and remote **databases** ...

### System and method for selective replication of databases within a workflow, enterprise, and mail ...

US Pat. 6574617 - Filed Jun 19, 2000 - International Business Machines Corporation

25 is a flow diagram of a process for enabling **multiple databases** for ...

Keep Track of Offline Users B.2 Set Up Selective **Replication** B.3 Set Up Agents for ...

### Calibration of logical cost formulae for queries in a heterogeneous DBMS using synthetic database

US Pat. 5412806 - Filed Aug 20, 1992 - Hewlett-Packard Company

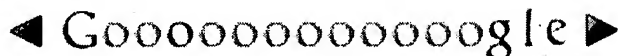
BACKGROUND OF THE INVENTION mentation, and **replication** transparency mentioned in ... is that retrievals can be directed to the DC and Portland **databases**. ...

Distributed computing architecture

US Pat. 6112304 - Filed Aug 27, 1997 - Zipsoft, Inc.

"The model-assisted global query system for **multiple databases** in distributed

... "**Replication** Everywhere", R. Dobson, Byte, Apr. 1997, pp. 34, 36. ...



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